

IN THE ABSTRACT

Please amend the abstract as follows:

Computer-assisted navigation is achieved with component-oriented programming and instructions that provide a distributed component programming navigation system. The computer-assisted navigation is achieved with a computing device having program memory, ~~that includes a~~ Operationally, the component-oriented application loaded in the memory ~~that provides~~ a distributed navigation system comprising a User Interface component, a Service Manager component, a User Positioning category of components that provides a user position based on navigation sensor data, and a Mapping category of components that accesses a map database and places the user position on a road segment of the map database, ~~wherein, the~~ The components within the component-oriented application navigation module are managed by the service manager component to perform distributed navigation services.